

WINDER, AND METHODS FOR STRATIFIED WINDING,
OF WIRE ONTO A DYNAMO-ELECTRIC CORE

Abstract of the Disclosure

[0059] A winder for winding wire onto coil supports of dynamo-electric cores with translational, rotational, and stratification motions with respect to a central longitudinal axis of the dynamo-electric core is provided. The rotational motion may preferably be provided by the rocking motion of a gear sector. The stratification motion may preferably be provided by the implementation of a spiral groove. The spiral groove preferably shares the same longitudinal axis as the winder. The rotation of the spiral groove preferably creates a relative motion between the groove and the needles, thereby producing the radial stratification motion of the needles. Additionally, the winder includes a motor arrangement which is programmable and controllable. The motor arrangement may also provide a dampening effect to limit unwanted stratification motion.